2024 Third Quarter Compliance Monitoring
&
Operational Performance Report

Reporting Period July 1 – September 30, 2024

Port Hope Conversion Facility
Operating Licence
FFOL-3631.00/2027

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Submitted to:
The Canadian Nuclear Safety Commission
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I Executive Summary

Cameco Corporation (Cameco) is committed to the safe, clean, and reliable operation of all its facilities and continually strives to improve its performance and processes to ensure the safety of both its employees and local residents. The Port Hope Conversion Facility (PHCF) maintains the required programs, plans and procedures in the areas of health and safety, radiation protection, environment, emergency response, fire protection, waste management, and training.

As a result of these programs, plans and procedures, the PHCF has maintained radiation exposures to workers and the public well below the regulatory dose limits. Environmental emissions are also being controlled to levels that are a fraction of the regulatory limits.

Cameco utilizes administrative levels and action levels to provide early detection of issues and ensure levels remain well below regulatory limits. A variety of control measures and practices are employed as part of site programs to ensure the protection of the public, site employees and the environment. A robust ALARA program is in place to ensure continual improvement and to ensure exposures and emissions remain well below action levels.

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1.0 Third Quarter Overview

1.1 Facility Operation

Cameco continues to strive for operational excellence at all its facilities through consistent application of management systems to ensure that they operate in a safe, clean, and reliable manner. Corporate policies and programs, including that for Safety, Health, Environment and Quality (SHEQ) provide guidance and direction for all site-based programs and procedures that define the PHCF Quality Management System.

There were no significant changes to Structure, Systems and Components (SSC) or processes in the third quarter.

There were no reportable events noted in the third quarter of 2024.

An employee had a whole-body dose for the month of June at 2.6 mSv which is above the action level of 2.0 mSv. Dosimeter results for the month of June were available at the end of July. An investigation was completed.

The UO_2 plant stopped operating June 28 for a summer outage. The plant was shut down for a vacation period and temporary transfer to other departments for July and most of August. The last two weeks of August UO_2 completed their maintenance outage with a restart on September 2. The UO_2 plant operated without incident for the duration of September.

The UF_6 plant operated without interruption for the Q3 period. The next short maintenance outage for the UF_6 plant is planned for October.

1.2 Physical Design / Facility Modification

There were no modifications affecting the safety analysis of the licensed facility made in the quarter that required written approval of the Commission or a person authorized by the Commission.

At the PHCF, changes to the physical design of equipment, processes, and the facility with the potential to impact safety are evaluated using the internal design change process described in *Process and Design Change Control, CQP-113*. Changes are reviewed through Cameco's management of change workflow, which ensures all potential impacts to the environment as well as to the health and safety of personnel are evaluated prior to implementation.

2.0 Radiation Protection

This safety and control area covers the implementation of a radiation protection program, in accordance with the *Radiation Protection Regulations*. This program must ensure that contamination and radiation doses are monitored and controlled. Cameco manages its Radiation Protection Program at the PHCF using ALARA principles in order to ensure doses are maintained well below regulatory limits.

An employee had a whole-body dose for the month of June at 2.6 mSv which is above the action level of 2.0 mSv. Dosimeter results for the month of June were available at the end of July. An investigation was completed.

Whole Body Dose

Table 1 shows the whole-body dose summary results from Q3 2024 for six work groups: UF_6 Plant; UO_2 Plant; Maintenance; Technical Support (including Nuclear Energy Worker (NEW) contractors); Corporate Technical Services; and Administration.

Table 1

Third Quarter 2024 Whole Body Dose Results				
Work Group	**Number of Individuals**	**Average Dose (mSv)**	**Minimum Dose (mSv)**	**Maximum Dose (mSv)**
UF_6 Plant	106	0.16	0.00	1.62
UO_2 Plant	25	0.06	0.00	0.20
Maintenance	94	0.10	0.00	0.91
Technical Support [1]	473	0.02	0.00	0.63
Corporate Technical Services	35	0.01	0.00	0.16
Administration	91	0.00	0.00	0.03
Total (Max)	**789**	**0.05**	**0.00**	**1.62**
[1]Includes contractors (NEWs) and Corporate Technical Services				

Table 2 shows the average, minimum and maximum quarterly individual external whole-body exposures from Q3 2023 through Q3 2024. The average whole-body dose is stable compared to previous quarters. The maximum whole-body dose received by UF_6 personnel was related to work in the flame reactor area.

Table 2

Whole Body Dose Results by Quarter				
Monitoring Period	**Number of Individuals**	**Average Dose (mSv)**	**Minimum Dose (mSv)**	**Maximum Dose (mSv)**
Q3 2023	855	0.05	0.00	1.30
Q4 2023	770	0.11	0.00	2.38
Q1 2024	752	0.05	0.00	1.16
Q2 2024	827	0.05	0.00	2.74
Q3 2024	789	0.05	0.00	1.62

Skin Dose

Table 3 shows the quarterly skin dose summary results for six work groups: UF_6 Plant; UO_2 Plant; Maintenance; Technical Support (including NEW contractors); Corporate Technical Services; and Administration. The highest exposures are from the UF_6 work group related to work in the flame reactor area.

Table 3

Third Quarter 2024 Skin Dose Results				
Work Group	**Number of Individuals**	**Average Dose (mSv)**	**Minimum Dose (mSv)**	**Maximum Dose (mSv)**
UF_6 Plant	106	0.63	0.00	5.36
UO_2 Plant	25	0.21	0.00	0.71
Maintenance	94	0.56	0.00	3.06
Technical Support[1]	473	0.08	0.00	2.00
Corporate Technical Services	35	0.02	0.00	0.16
Administration	91	0.00	0.00	0.02
Total (Max)	**789**	**0.21**	**0.00**	**5.36**
[1]Includes contractors (NEWs) and Corporate Technical Services				

Table 4 shows the average and maximum quarterly individual skin exposure for Q3 2023 through Q3 2024. The average skin dose is consistent to previous quarters.

Table 4

Skin Dose Results by Quarter				
Monitoring Period	**Number of Individuals**	**Average Dose (mSv)**	**Minimum Dose (mSv)**	**Maximum Dose (mSv)**
Q3 2023	855	0.16	0.00	4.94
Q4 2023	770	0.30	0.00	8.30
Q1 2024	752	0.19	0.00	12.38
Q2 2024	827	0.15	0.00	3.62
Q3 2024	789	0.21	0.00	5.36

Eye Dose

Table 5 shows the quarterly eye dose summary results for six work groups: UF_6 Plant; UO_2 Plant; Maintenance; Technical Support (including NEW contractors), Corporate Technical Services; and Administration. The highest exposure is from the UF_6 work group related to time in the flame reactor areas of the UF_6 plant.

Table 5

Third Quarter 2024 Eye Dose Results				
Work Group	**Number of Individuals**	**Average Dose (mSv)**	**Minimum Dose (mSv)**	**Maximum Dose (mSv)**
UF_6 Plant	106	0.39	0.00	3.35
UO_2 Plant	25	0.14	0.00	0.47
Maintenance	94	0.33	0.00	1.88
Technical Support[1]	473	0.05	0.00	1.18
Corporate Technical	35	0.02	0.00	0.15
Administration	91	0.00	0.00	0.02
Total (Max)	**789**	**0.13**	**0.00**	**3.35**
[1]Includes contractors (NEWs)				

Table 6 shows the average and maximum quarterly individual external eye exposures for Q3 2023 through Q3 2024. The average eye dose is similar to previous quarters.

Table 6

Eye Dose Results by Quarter				
Monitoring Period	**Number of Individuals**	**Average Dose (mSv)**	**Minimum Dose (mSv)**	**Maximum Dose (mSv)**
Q3 2023	855	0.11	0.00	2.31
Q4 2023	770	0.20	0.00	4.58
Q1 2024	**752**	**0.12**	**0.00**	**5.26**
Q2 2024	**827**	**0.10**	**0.00**	**2.80**
Q3 2024	**789**	**0.13**	**0.00**	**3.35**

Urine Analysis

The urine analysis action levels are presented in Table 7 below.

Table 7

Urine Analysis Action Levels		
Parameter		**Action Level**
Urinalysis (NEW)	Weekly - UO_2/UF_6 Operators, Maintenance, Technical Support	65 µg U/L
	Monthly - Administrative Support	25 µg U/L
	Long-term Contractors	65 µg U/L
	Short-term Contractors	80 µg U/L
	Chemical toxicity – post shift sample	500 µg U/L
	Fluoride toxicity – all samples	7 mg F/L
Urinalysis (Non-NEW)	Daily - Routine Sample	40 µg U/L
	Monthly - Routine Sample	25 µg U/L
	Chemical Toxicity - Post Shift Sample	500 µg U/L
	Fluoride Toxicity – All Samples	4 mg F/L

Table 8 shows the distribution of urine results for Q3 2024. A total of 11,229 urine samples were collected and analyzed for uranium during Q3 2024. The majority of routine urine analysis results (99.5%) were less than 5 µg U/L in the quarter.

All results above 13 µg U/L were screened by radiation protection staff. There were no official investigations for uranium in urine during Q3 2024

Table 8

Third Quarter 2024 Routine Urine Analysis Results	
Distribution of Results	**Q3 2024**
Number of Samples < 5 µg U/L	11,175
Number of Samples > 5 to < 25 µg U/L	54
Number of Samples > 25 to < 50 µg U/L	0
Number of Samples > 50 µg U/L	0
Number of Samples Analyzed (Uranium)	11,229

Table 9 presents the internal urine analysis doses for the last five quarters. The average and maximum internal urine analysis doses in the quarter were 0.01 mSv and 0.26 mSv, respectively, which was consistent with previous quarters.

Table 9

Internal Dose (Urine) by Quarter				
Quarter	**Number of Individuals**	**Minimum Dose (mSv)**	**Maximum Dose (mSv)**	**Average Dose (mSv)**
Q3 2023	735	0.00	0.23	0.01
Q4 2023	662	0.00	0.19	0.01
Q1 2024	657	0.00	0.16	0.01
Q2 2024	693	0.00	0.17	0.01
Q3 2024	684	0.00	0.26	0.01

Fluoride in Urine

A total of 6,433 urine samples were analyzed for fluoride during Q3 with summary results provided in Table 10.

There were 6 routine and non-routine samples above the internal administrative investigation level of 4 mg F/L during Q3. The samples were investigated and entered into CIRS.

Table 10

Third Quarter 2024 Fluoride in Urine Analysis Results			
Type of Fluoride Samples	**Number of Samples**	**Minimum Concentration (mg F/L)**	**Maximum Concentration (mg F/L)**
All fluoride samples	6,433	0.0	5.9
Routine post-shift fluoride samples >= 7 mg F/L	0	-	-
Routine post-shift fluoride samples >= 4 mg F/L	1	-	-
Non-routine fluoride samples	493	0.0	3.4
Samples analyzed for U, insufficient volume (< 30mL) for F analysis	7	-	-

Lung Counting

The lung count trailer was onsite at PHCF in Q3, 2023. The PHCF Maintenance and Productions groups were lung counted during this time.

Contamination Control

The PHCF is divided into three zones for contamination control purposes. Zone 1 areas (clean areas - no radioactive sources other than monitoring equipment) are clearly delineated. Whole body monitors are located at the Zone 1 boundary in the main lobby, men's, and women's change rooms. There is also a monitor located at the gate 12 vehicle port. In Zone 2 areas and the yard Zone 3 areas (transition areas – may contain limited amounts of uranium compounds), no visible contamination should exist and, when detected, loose contamination is promptly isolated, monitored, cleaned, and monitored again to ensure the contamination has been removed. Zone 3 production areas are production areas where uranium compounds are expected. Incidents of zone contamination are presented in Table 11.

Table 11

Q3 2024 Alpha Contamination Monitoring Results			
Area	**Number of Samples Taken**	**Zone Contamination Criteria (Bq/cm²)**	**Number of Samples Above Criteria**
Zone 1	1,091	0.4	0
Zone 2	15,547	0.4	41
Zone 3 (Yard)*	13	0.4	13

*Note – Samples are not routinely required in the yard area. Samples are taken as required if contamination is suspected.

The contamination in Zone 2 areas was primarily detected in the office areas and lunchrooms of production buildings. Contamination measurements are taken upon request in Zone 3 areas when contamination is suspected and only documented when above the applicable levels.

In-Plant Air

Routine air sampling is performed by collecting airborne particulate on air sampling filters and quantifying the airborne concentration of uranium. The Q3 results are presented in Table 12.

The site administrative level and derived air concentration (DAC), based on slow moving (low solubility) material, is 100 µg U/m^3 but protective measures, such as investigation and respiratory protection, are normally required as a precaution at lower DAC levels. Continuous air monitoring equipment (iCAMs) in the UF_6 and UO_2 plants are also used to provide early warning and to prompt response to elevated airborne uranium concentrations. Local alarms and direct communication with the control rooms provide early warning to plant personnel.

Table 12

Third Quarter 2024 In-Plant Air Uranium Concentration by Operations Group				
Operations Group	**Number of Samples Taken**	**Average (µg U/m^3)**	**Maximum (µg U/m^3)**	**Number of Samples Taken Above Administrative Level**
UF_6 Plant	4,338	14	687	120
UO_2 Plant	1,532	3	64	0
Waste Recovery	426	1	5	0
CUP	431	1	4	0

The maximum in-plant air sample of 687 µg U/m^3 was recorded on July 19, 2024, in the UF_6 plant. This result was due to maintenance work on replacing a drum dryer dust box.

The average in-plant air concentrations are lower when compared with previous quarters.

3.0 Conventional Health and Safety

This safety and control area covers the implementation of a program to manage non-radiological workplace safety hazards and to protect personnel and equipment. Conventional safety statistics are presented in Table 13.

Table 13

2024 Safety Statistics					
Quarter / Parameter	**Q1 2024**	**Q2 2024**	**Q3 2024**	**Q4 2024**	**YTD**
First Aid Injuries	9	18	17	-	44
Medical Diagnostic Procedures	8	4	1	-	13
Medical Treatment Injuries	1	2*	0	-	3
Other Recordable Injuries	0	0	0	-	0
Lost Time Injuries	0	2	0	-	2
Lost Time Injury Frequency	0	1.64	0	-	0.57
Lost Time Injury Severity	0	63.08	0	-	27.65

*Removed one medical treatment (MT) from statistics - Original classification was MT but revised on July 16, 2024 to Non-occupational MT.

Health and Safety Activities

- **Communications**: OHS and CSSC continued to issue safety bulletins to promote a focus on continuing safety awareness. Safety meeting presentations were also used to communicate safety focused messages.
- **Education and Training**: Training continued routinely using both in person methods and computer-based learning.
- **Safety Awareness Activities**: A "Take Time to Work Safely" promotion was held through Q3 into October. Employees were able to submit ballots with safety tasks they noted for a chance to win prizes.
- **CSSC:** The CSSC committee continues to meet for regulatory meetings.
- **Safety & Industrial Hygiene**: The safety group focused on HIRAC assessments in the third quarter of 2024.

- **Total Recordable Injury Rate (TRIR)** – Q3 Ending = 2.29 (44 First Aids, 13 Medical Diagnostics, 3 Medical Treatments). Contractor TRIR YTD is 2.08.

4.0 Environmental Protection

This safety and control area covers the programs that monitor and control all releases of nuclear and hazardous substances into the environment, as well as their effects on the environment, as the result of licensed activities.

Public Dose

ORL equations for Site 1 and Site 2 have been derived and are expressed in the form shown below.

Public Dose = Dose $_{Air}$ + Dose $_{Water}$ + Dose $_{Gamma}$ < 0.3 mSv/y

The monthly dose from Site 1 and Site 2 are based on monitoring results for each dose component as shown in Table 14.

Table 14

Quarterly Dose (mSv/quarter)					
ORL Component	**Q1 2024**	**Q2 2024**	**Q3 2024**	**Q4 2024**	**2024 Total**
Air	<0.001	<0.001	<0.001	-	0.001
Water	<0.001	<0.001	<0.001	-	<0.001
Gamma – Site 1	0.021	0.021	0.002	-	0.044
Gamma – Site 2	0.029	0.023	0.005	-	0.058
Quarterly Dose – Site 1	0.021	0.021	0.003	-	0.045
Quarterly Dose – Site 2	0.030	0.024	0.006	-	0.059

Gamma Monitoring

Dose to the public is calculated for both site 1 and 2 using specific gamma fenceline monitoring locations. The results at station 2 are used for site 1 public dose calculations and the results at station 21 are used for site 2 public dose calculations. The results at these locations for this quarter are summarized and compared with regulatory action levels in Table 15.

There were no monthly gamma radiation action levels exceeded during Q3.

Table 15

Third Quarter 2024 Public Dose Gamma Monitoring Results					
Station Number	**July**	**August**	**September**	**Action Level (µSv/h)**	**Licence Limit (µSv/h)**
2	0.087	0.013	0.025	0.400	0.570
10	0.000	0.000	0.000	0.400	0.610
21	0.000	0.021	0.000	0.250	0.260

Air Emissions

The quarterly average and maximum stack emissions from the UF_6 plant main stack and the UO_2 plant main stack are presented in Table 16.

A stack monitoring program is used to determine the airborne uranium emission rates on a daily basis from the main stacks of the UF_6 and UO_2 plants.

No licensed action levels were exceeded for uranium emissions from the UF_6 plant main stack in the quarter. The UF_6 main stack average uranium emission rate was consistent with previous quarters during which production was operational.

No licensed action levels were exceeded for uranium emissions from the UO_2 plant main stack in the quarter. The UO_2 main stack average uranium emission rate was consistent with previous quarters during which production was operational.

Fluoride emissions from the UF_6 main stack are sampled and analyzed on a continuous basis using an on-line analyzer and the data is collected on the plant computer system. No licensed action levels were exceeded for fluorides in the quarter. The UF_6 main stack average fluoride emission rate was consistent with previous quarters during which production was operational.

The UO_2 main stack is also continuously sampled for ammonia. No licensed action levels were exceeded for ammonia emissions from the UO_2 plant main stack in the quarter. The UO_2 main stack average ammonia emission rate was consistent with previous quarters.

Table 16

Daily Main Stack Emissions by Quarter									
Plant	**Parameter**	**Licence Limit**	**Action Level**	**Value**	**Q3 2023**	**Q4 2023**	**Q1 2024**	**Q2 2024**	**Q3 2024**
UF_6	Uranium g U/h	280	40	Quarterly Daily Average	2.1	2.7	2.8	1.9	2.1
				Quarterly Daily Maximum	10.7	6.3	9.3	5.7	5.3
	Hydrogen Fluoride g HF/h	650	230	Quarterly Daily Average	15	10	14	24	14
				Quarterly Daily Maximum	107	75	128	226	120
UO_2	Uranium g U/h	240	10	Quarterly Daily Average	0.6	0.7	0.6	0.5	0.5
				Quarterly Daily Maximum	1.8	1.4	1.7	1.7	0.9
	Ammonia kg NH_3/h	58	10	Quarterly Daily Average	1.6	2.0	2.0	2.2	1.4
				Quarterly Daily Maximum	4.6	3.0	2.7	3.7	3.2

Liquid Discharges

The sanitary sewer action level was revised in the second quarter of 2024. A daily uranium action level of 100 µg U/L (0.10 mg U/L) applied through June 18. Effective June 19, the action level was revised to a monthly mean action level of 150 µg U/L (0.15 mg U/L). The monthly mean release limit of 275 µg U/L (0.275 mg U/L) otherwise remains unchanged.

Tables 17 and 18 summarize uranium concentrations and pH values recorded for the third quarter of 2024. Facility discharge quality remained well below both the monthly mean action level and monthly mean limit through the quarter. The magnitude and frequency of precipitation events has routinely been seen to influence sanitary sewer quality as a function of an increase in groundwater infiltration potential. No uranium excursions were

recorded in the second half of 2023 and no excursions were recorded though the third quarter of 2024.

Cameco has evaluated targeted sanitary sewer infrastructure rehabilitation, replacement and/or abandonment tasks, taking into consideration work completed to date and planned site and VIM project sanitary sewer system improvements. Near term focus items included the replacement and realignment of sewer infrastructure servicing existing facility lift stations and portions of Building 20, and the abandonment of associated inactive utilities. Rehabilitation work had also been planned for the building 13 lateral service.

The building 13 work was expanded to include the replacement of a portion of the service, and the work tasks were completed in September 2024. Work was initiated on the replacement/realignment of sanitary sewer infrastructure adjacent to Building 32 in July, but the project work was halted due to challenges posed by subsurface utility interferences. As water main infrastructure work is required in support of the targeted sanitary sewer work, the sanitary sewer focus items are anticipated to resume in 2026.

Table 17

Sanitary Sewer Discharge Data by Quarter							
Parameter	**Units of Measure**	**Value**	**Q3 2023**	**Q4 2023**	**Q1 2024**	**Q2 2024**	**Q3 2024**
Uranium	mg U/L	Average	0.0054	0.0039	0.0053	0.0064	0.0028
		Maximum	0.020	0.021	0.014	0.053	0.0064
pH	-	Minimum	7.26	7.59	7.30	7.63	7.62
		Maximum	8.29	8.96	8.24	8.26	8.70

Table 18

Q3 2024 Monthly Sanitary Sewer Discharges			
Period	**Sanitary Sewer Action Level/Release Limit**	**Monthly Average Uranium Concentration (µg U/L)**	**Daily Maximum Uranium Concentration (µg U/L)**
July	Monthly mean action level of 150 µg U/L Monthly mean release limit of 275 µg U/L	3.0	6.4
August		2.4	3.7
September		2.9	4.9

Ambient Air Monitoring

Table 19 shows the quarterly all-station average and maximum uranium dustfall results from Q3 2023 through to Q3 2024.

No uranium dustfall results exceeded the internal administrative screening level in the third quarter. The average uranium in dustfall results in the third quarter of 2024 were consistent with the uranium in dustfall averages during the previous quarters.

Table 19

Uranium in Dustfall Results by Quarter (mg U/m^2/30 days)					
Value	**Q3 2023**	**Q4 2023**	**Q1 2024**	**Q2 2024**	**Q3 2024**
Average	0.3	0.3	0.1	<0.1	0.1
Maximum	0.9	1.8	0.2	0.1	0.3
Internal Administrative Screening Level = 10 mg U/m^2/30 days					

Table 20 summarizes the average and maximum uranium hi-vol results from Q3 2023 through to Q3 2024.

Table 20

Uranium-in-Air Concentration at Hi-Vol Stations by Quarter (µg U in TSP/m^3)					
Quarter	**Result**	**Waterworks**	**Shuter Substation**	**Marsh Street**	**Hayward Street**
Q3 2023	Average	0.002	0.002	0.009	0.004
	Maximum	0.009	0.021	0.099	0.027
Q4 2023	Average	0.002	0.008	0.006	0.003
	Maximum	0.012	0.409	0.104	0.066
Q1 2024	Average	0.002	0.001	0.003	0.002
	Maximum	0.011	0.003	0.013	0.016
Q2 2024	Average	0.001	0.001	0.004	0.002
	Maximum	0.012	0.003	0.017	0.030
Q3 2024	Average	0.001	0.001	0.007	0.003
	Maximum	0.004	0.004	0.042	0.025
Average <0.06 µg U in TSP/m^3 (annual) AAQC Maximum <0.3 µg U in TSP/m^3 (24 hr) AAQC					

Table 21 shows the quarterly all-station average and maximum fluoride dustfall results from Q3 2023 through to Q3 2024.

The average fluoride in dustfall results in the third quarter of 2024 were consistent with previous quarters.

Table 21

Fluoride in Dustfall Results by Quarter (mg F/m^2/30 days)					
Value	**Q3 2023**	**Q4 2023**	**Q1 2024**	**Q2 2024**	**Q3 2024**
Average	0.8	1.0	0.8	1.3	1.5
Maximum	6.8	7.0	5.8	8.5	9.6
Internal Administrative Screening Level = 20 mg F/m^2/30 days					

Table 22 shows the average and maximum lime candle results from the third quarter of 2023 through to the third quarter of 2024. The average results are comparable to levels observed in the previous quarters.

Table 22

Monthly Lime Candle Results by Quarter (μg F/100 cm^2/30 days)					
Value	**Q3 2023**	**Q4 2023**	**Q1 2024**	**Q2 2024**	**Q3 2024**
Average	3	4	3	5	4
Maximum	10	9	9	11	15
The desirable ambient air quality criteria for lime candles are to protect forage crops consumed by livestock. During the summer growing season (April 1 – October 31), the criteria is 40µg F/100cm^2/30 days, changing to 80µg F/100cm^2/30 days in winter (November 1 – March 31).					

5.0 Public Information Program

During the third quarter of 2024, PHCF continued to meet the requirements of CNSC RD/GD 3.2.1, Public Information and Disclosure programs.

Public Engagement

Between July 9-26, 2024, Cameco conducted public opinion polling of 303 Port Hope residents to estimate support for Cameco's Port Hope operations and to gather perspectives regarding the corporation. The results were released at the end of August and show that Port Hope residents continue to demonstrate consistent support for Cameco's operations. Key findings indicate:

- 91% of respondents support the continuation of Cameco's operations in Port Hope
- 82% expressed pride in having Cameco as a part of the community
- 93% describe themselves as knowledgeable about Cameco's operations.

On July 17, PHCF hosted a facility tour for members of the Canadian Nuclear Association. This included nine CNA staff who participated in the tour and were able to speak with subject matter experts.

From August 16-23, 2024, Cameco sponsored Local Manufacturing Week through 93.3 MyFM.

In early September, the Summer 2024 issue of Energize was delivered to all addresses in Port Hope. This issue included information on our 2023 Sustainability Report, a story of Cameco and Curve Lake First Nation members travelling to Saskatchewan, Cameco and Missassaugas of Scugog Island First Nation formalizing their working relationship, an update on the funds raised for the Cameco Fund for Mental Health, and an invitation to community members to visit Cameco at the Port Hope Fair and an ad for employment opportunities.

From September 13-15, 2024, PHCF attended the annual Port Hope Fair. This was an opportunity to interact with Cameco leadership and subject matter experts to learn more about Cameco's operations through our information booth including visual displays with information on operations and activities such as the PHCF, benefits of nuclear, regulatory compliance, environmental monitoring and Vision in Motion. Twelve employees volunteered over the weekend, speaking to approximately 400 community members.

At the end of September, four employees volunteered on the Habitat for Humanity Northumberland build site in Baltimore, Ontario. This was the first build date with two additional builds hosted in October.

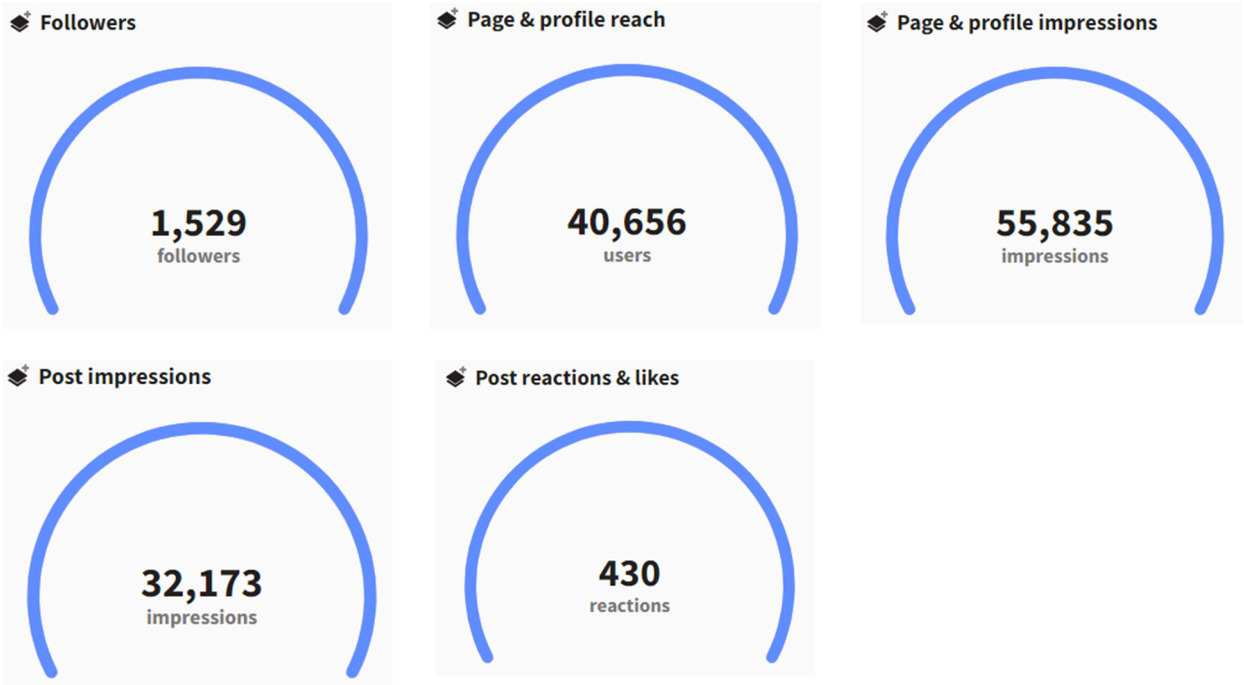
Cameco provided free advertising to local charitable organizations with its sponsorship of MyFM's Community Partner Program. Through the quarter, Cultivate Festival, Habitat for Humanity Northumberland and Northumberland Diverse Peoples Coalition benefitted from this sponsorship by receiving advertising.

Public Disclosure

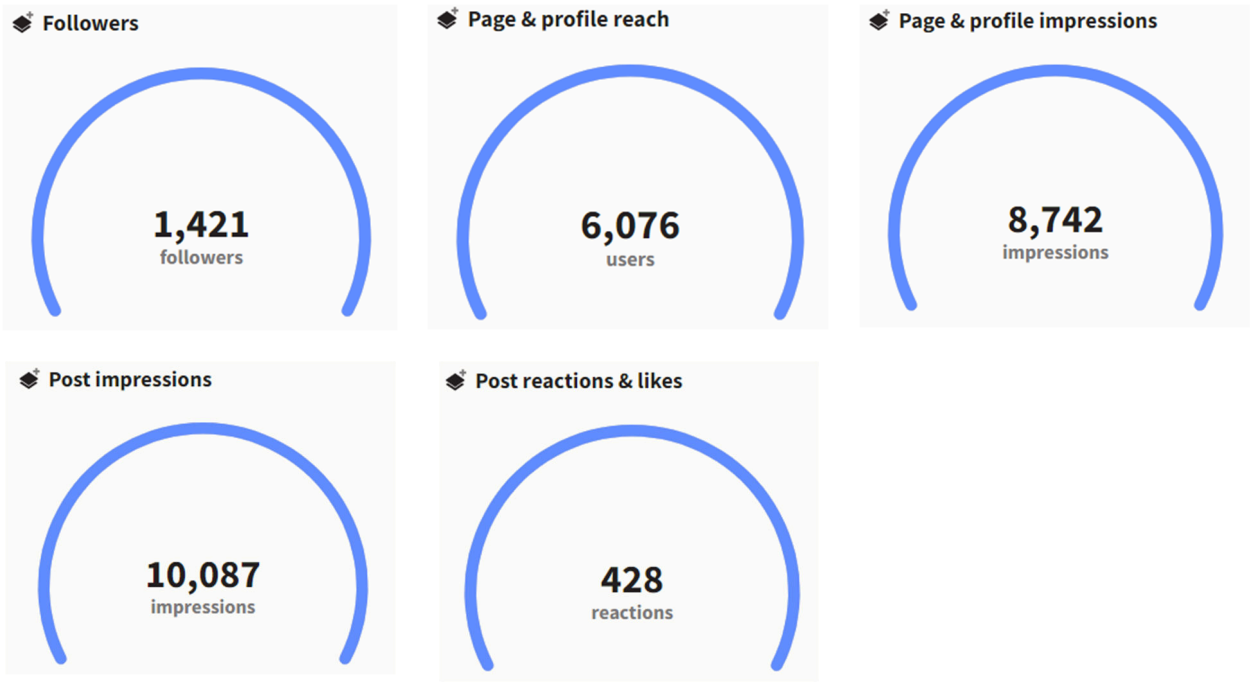
There were no public disclosures during the third quarter: Environment & Safety - Conversion: Port Hope - Fuel Services - Businesses - Cameco

Social Media

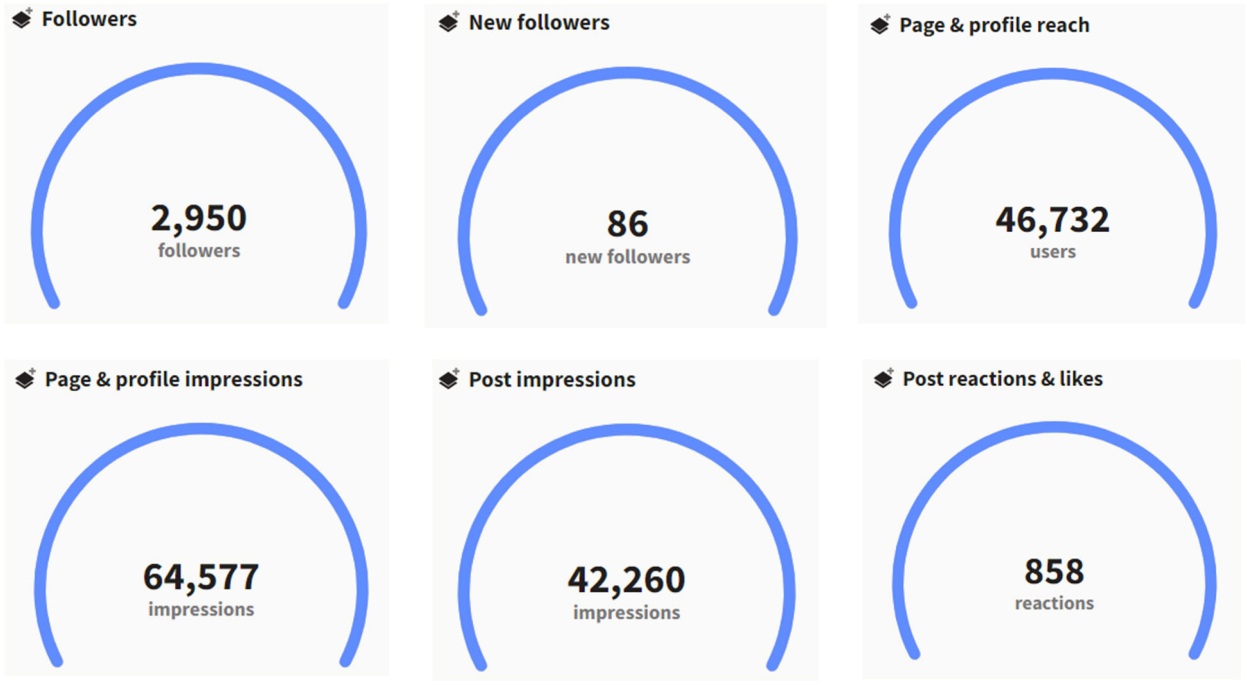
Facebook: *July 1, 2024 to September 30, 2024*



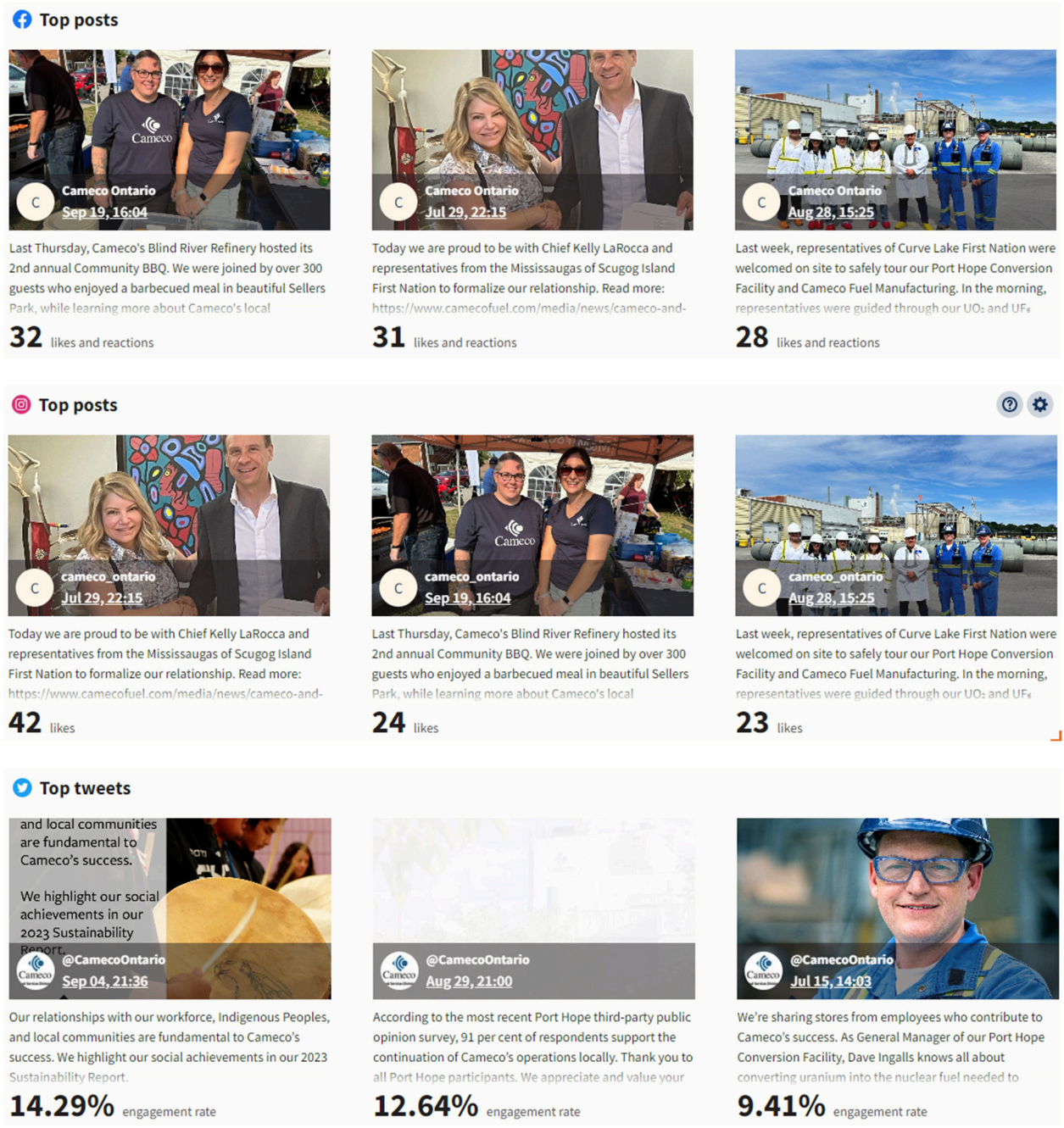
Other platforms (Instagram, X & YouTube): *July 1, 2024 to September 30, 2024*



All Platforms: *July 1, 2024 to September 30, 2024*



Top Performing Posts



Summary

Cameco Ontario's 152 posts (combined across Facebook, Instagram, X and YouTube):

- Facebook: 54 posts
- Instagram: 52 posts
- X: 46 posts

These posts covered information such as:

- Key findings from our 2023 Sustainability Report
- Indigenous engagement activities
- Career opportunities
- My Cameco stories profiling Cameco employees
- Community outreach activities including the annual Port Hope Fair
- Community notices of fire alarm and speaker testing.

Website

Summer issue of Energize

- Energize - Summer 2024 | Cameco Fuel Services

The Q2 2024 Compliance Report:

- PHCF 2024 Q2 Compliance Report.pdf (camecofuel.com)

News release announcing that Cameco and Mississaugas of Scugog Island First National formalize their working relationship:

- Cameco and Mississaugas of Scugog Island First Nation formalize their working relationship | Cameco Fuel Services

2024 Polling results:

- Port Hope Polling Results 2024 | Cameco Fuel Services

Community Notices:

- PHCF - Intake Structure Removal and Isolation of Harbour Wall Openings | Cameco Fuel Services
- PHCF - Isolation of Harbour Wall Opening - Continuation of Work | Cameco Fuel Services

Media Analysis

Cameco received media coverage for its sponsorship of Local Manufacturing Week:

- Next week we'll be showcasing Local Manufacturers, fueled by the support of Cameco – August 16, 2024 – GoNorthumberland.ca
    - Next week we'll be showcasing Local Manufacturers, fueled by the support of Cameco | 93.3 myFM (gonorthumberland.ca)

Communication Products

Summer issue of Energize

- Energize - Summer 2024 | Cameco Fuel Services

News release announcing that Cameco and Mississaugas of Scugog Island First National formalize their working relationship:

- Cameco and Mississaugas of Scugog Island First Nation formalize their working relationship | Cameco Fuel Services

Reports to share 2024 Polling results:

- Port Hope Polling Results 2024 | Cameco Fuel Services

6.0 Indigenous Engagement

Cameco continues regular engagement with Curve Lake First Nation (CLFN) and the Mississaugas of Scugog Island First Nation (MSIFN).

Cameco sponsored MSIFN's Pow Wow held on July 20/21. On July 29th, Cameco met with MSIFN Chief to celebrate the official signing and formalizing of our relationship. Cameco and MSIFN issued a joint release announcing the formalization of the relationship. The news release was sent to local media, posted on camecofuel.com and shared on social media.

On September 16, Cameco and MSIFN met to share more detailed information about MSIFN, its community and Cameco. Cameco and MSIFN outlined future work plans into 2025.

On July 10th Cameco attended the Harvester meeting at CLFN. Cameco set up a booth and provided information about Cameco's operations to community members. Cameco hosted CLFN on August 21st for meetings including a tour of the Port Hope Conversion Facility and Fuel Manufacturing. The meeting focused on joint initiatives, areas of interest and planning into 2025.

On August 7 Cameco met with Hiawatha First Nation for an introductory meeting. Hiawatha expressed interest in formalizing a relationship with Cameco.

On August 19 the spring edition of Energize was shared with Curve Lake, Mississaugas of Scugog Island, Hiawatha, Mohawks of the Bay of Quinte and Rama First Nations and the summer edition was shared on September 16.

7.0 Other Matters of Regulatory Interest

7.1 Vision in Motion

VIM engineering and procurement activities that were in progress this period included: Vendor design of the structure and interior fit out of Building 72; bid of foundation work for Building 72; award of the contract for the remediation proof of concept trial (Area 5); planning for future pipe rack work; and preparation of work packages for building improvements at the Dorset Street facility. In collaboration with the Municipality of Port Hope a tender was issued for the purchase of stormwater equipment for future civil works in the vicinity of the parking lot (Area 9).

Field activities included: Completion of interior structural work and drum dumping equipment in Building 5B. Removal of equipment from Building 2 and water management at the former Building 27 slab were ongoing throughout the quarter. Mobilization for the remediation proof of concept trial began late in the period.

Waste shipments to the LTWMF continued from the PHCF main site and the Dorset Street facility, including packaged wastes, bulk wastes (dump trucks) and vac trucks.

Coordination with CNL continued. CNL continued with soil removal at the centre pier on Cameco's behalf according to the protocol established earlier in the year.

The Supplementary Environmental Monitoring Plan for Vision in Motion and Other Clean-Up Program Projects is in place to monitor environmental impacts for the VIM activities, primarily during demolition/excavation.

There were 2 environmental monitoring exceedances in the third quarter related to VIM activities. Elevated DustTrak results were recorded July 2 and 16, 2024 caused by a skid steer spreading granular material in Area 4.

8.0 Concluding Remarks

Cameco is committed to the safe, clean, and reliable operations of all its facilities and continually strives to improve safety performance and processes to ensure the safety of both its employees and the people in neighbouring communities.

In the third quarter of 2024, PHCF did not exceed any CNSC regulatory limits. As a result of the effective programs, plans and procedures in place, the PHCF was able to maintain individual radiation exposures well below all regulatory dose limits. In addition, environmental emissions continued to be controlled to levels that are a fraction of the CNSC regulatory limits, and public radiation exposures are also well below the regulatory limits.

PHCF's ALARA program continued to be effective in the third quarter of 2024.

Cameco's relationship with local residents remains strong and Cameco is committed to maintaining the strong support and trust developed over the past several years.